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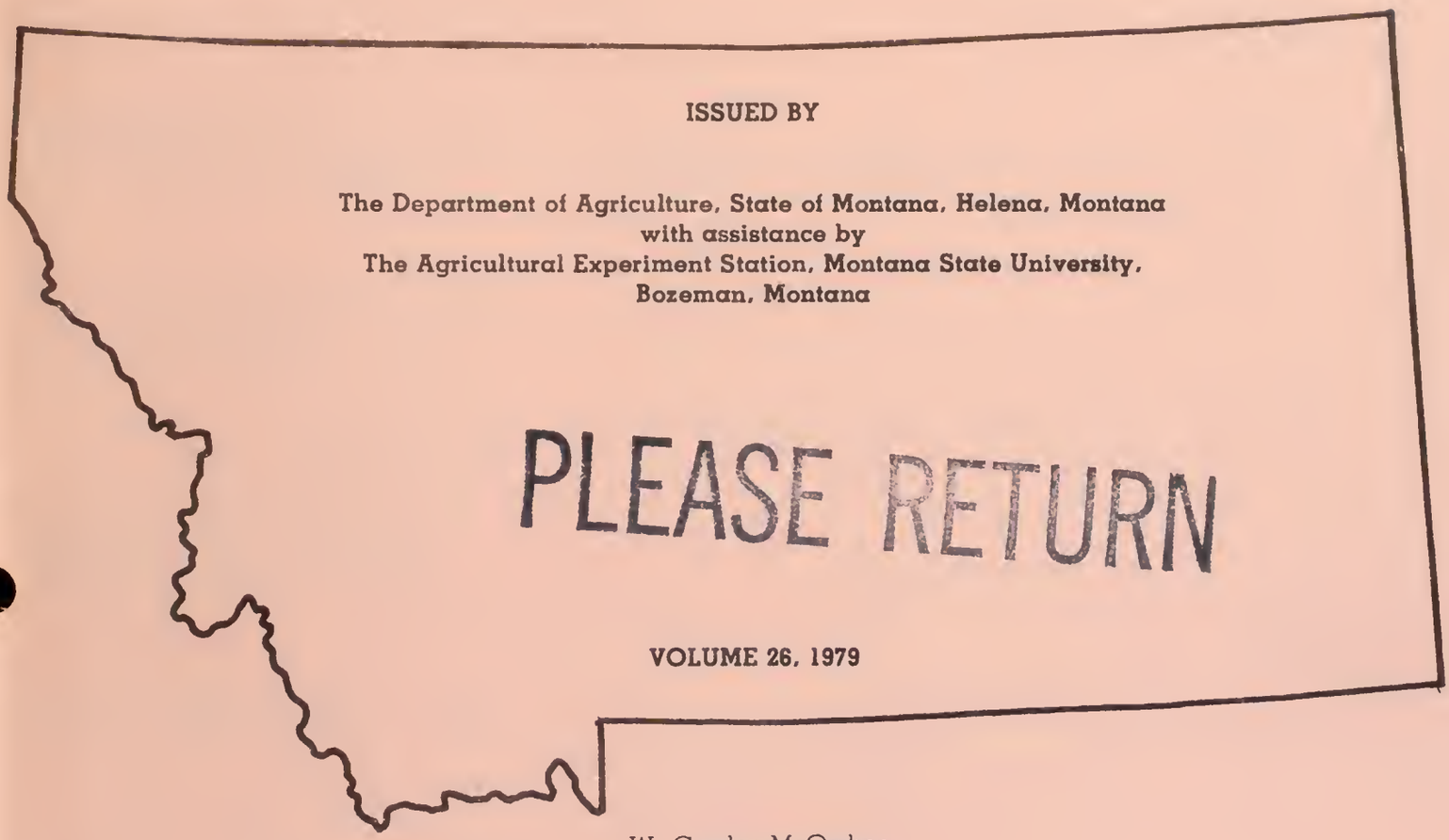
# 1979
# MONTANA COMMERCIAL FERTILIZER REPORT



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**Bozeman, Montana**

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**VOLUME 26, 1979**

W. Gordon McOmber
Director of Agriculture
State of Montana
Helena, Montana 59601

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COMMERCIAL FERTILIZER REPORT

ISSUED BY

THE DEPARTMENT OF AGRICULTURE, STATE OF MONTANA, HELENA, MONTANA

AND

THE AGRICULTURE EXPERIMENT STATION, MONTANA STATE UNIVERSITY, BOZEMAN, MONTANA

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_2$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| **Agricultural Management Services**<br>800 Crescent Drive<br>Great Falls, Montana 59401 | | | | | | | | |
| ---------- | Great Falls | 4620 | 21.5 | 21.5 | 21.1 | 21.1 | 5.3 | 5.7 |
| ---------- | Great Falls | 4622 | 13.0 | 13.3 | 40.0 | 41.4 | | |
| **Alaska Fish Fertilizer, Inc.**<br>865 Lind Avenue South West<br>Renton, Washington 98055 | | | | | | | | |
| 5-1-1---------- | Helena | 4871 | 5 | 5.3 | 1 | 2.6 | 1 | 1.4 |
| **Alberto-Culver Company**<br>Melrose Park, Illinois 60160 | | | | | | | | |
| 1-5-2---------- | Livingston | 4878 | 1 | 1.2 | 5 | 5.2 | 2 | 2.3 |
| 1-1-1---------- | Livingston | 4879 | 1 | 1.1 | 1 | 1.0 | 1 | 1.3 |
| **Andersons Lawn Fertilizer Division**<br>Box 119<br>Maumee, Ohio 43537 | | | | | | | | |
| Gambles Tomatoe Food 5-10-10----- | Billings | 4998 | 5 | 5.1 | 10 | 10.0 | 10 | 13.5 |
| **Becker Industries**<br>Conda, Idaho 22836 | | | | | | | | |
| Becker 18-16-0---------- | Wolf Point | 4580 | 18 | 17.8 | 46 | 46.3 | | |
| ---------- | Savage | 4707 | 18 | 17.5 | 46 | 46.4 | | |
| ---------- | Savage | 4708 | 18 | 17.5 | 46 | 46.4 | | |
| **Becker Industries**<br>124 Putnum<br>Greenwich, Connecticut 06830 | | | | | | | | |
| 11-52-0---------- | Reserve | 4644 | 11 | 11.3 | 52 | 52.2 | | |
| 18-46-0---------- | Conrad | 4834 | 18 | 17.6 | 46 | 46.4 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| **Big Sandy Grain**<br>**Big Sandy, Montana 59520** | | | | | | | | |
| 18-46-0 | Big Sandy | 4920 | 18 | 18.2 | 46 | 46.8 | | |
| 18-46-0 | Big Sandy | 4921 | 18 | 17.9 | 46 | 46.4 | | |
| **Cargill**<br>**Conrad, Montana 59425** | | | | | | | | |
| 11-53-0 | Conrad | 4833 | 11 | 10.8 | 53 | 53.5 | | |
| **Cargill**<br>**Havre, Montana 59501** | | | | | | | | |
| 34-0-0 | Havre | 4928 | 34 | 33.9 | | | | |
| **Cargill**<br>**Valier, Montana 59486** | | | | | | | | |
| 34-0-0 | Valier | 4821 | 34 | 33.6 | | | | |
| 18-46-0 | Valier | 4822 | 18 | 17.2 | 46 | 46 | | |
| **Cenex**<br>**Box 40809**<br>**St. Paul, Minnesota 55165** | | | | | | | | |
| Cenex 46-0-0 | Wolf Point | 4581 | 46 | 46.6 | | | | |
| Cenex 0-44-0 | Wolf Point | 4582 | | | 44 | 44.5 | | |
| Cenex 18-46-0 | Wolf Point | 4583 | 18 | 17.8 | 46 | 46.2 | | |
| 11-51-0 | Havre | 4615 | 11 | 11.2 | 51 | 51.2 | | |
| 18-46-0 | Havre | 4616 | 18 | 17.6 | 46 | 46.0 | | |
| 46-0-0 | Havre | 4617 | 46 | 45.7 | | | | |
| 0-0-60 | Havre | 4618 | | | | | 60 | 60.2 |
| ---------- | Harlem | 4623 | 46 | 46.5 | | | | |
| ---------- | Chinook | 4625 | 16 | 16 | 20 | 20.4 | | |
| ---------- | Chinook | 4626 | 18 | 18.1 | 46 | 48.6 | | |
| ---------- | Chinook | 4627 | | | 44 | 44.5 | | |
| ---------- | Chinook | 4628 | | | | | 60 | 61.8 |
| ---------- | Chinook | 4629 | 46 | 46 | | | | |
| Cenex 18-46-0 | Baker | 4640 | 18 | 18.0 | 46 | 46.0 | | |
| Cenex 0-44-0 | Baker | 4641 | | | 44 | 44.0 | | |
| Cenex 46-0-0 | Baker | 4642 | 46 | 46.2 | | | | |
| 18-46-0 | Moore | 4656 | 18 | 17.8 | 46 | 46.1 | | |
| 46-0-0 | Moore | 4657 | 46 | 45.9 | | | | |
| 11-55-0 | Moore | 4658 | 11 | 11.4 | 55 | 55.3 | | |
| 0-0-60 | Moore | 4659 | | | | | 60 | 61.0 |
| ---------- | Richey | 4711 | | | 44 | 46.1 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Cenex (continued) | | | | | | | | |
| ----------Glasgow | | 4716 | 46 | 46 | | | | |
| ----------Glasgow | | 4717 | 18 | 17.9 | 46 | 46.5 | | |
| Cenex<br>Conrad, Montana 59425 | | | | | | | | |
| 18-46-0----------Conrad | | 4855 | 18 | 17.9 | 46 | 46.5 | | |
| 0-0-60----------Conrad | | 4856 | | | | | 60 | 61.8 |
| Cenex<br>Valier, Montana 59486 | | | | | | | | |
| 21-0-0----------Valier | | 4854 | 21 | 20.8 | | | | |
| Central Exchange<br>Box 43089<br>St. Paul, Minnesota 55165 | | | | | | | | |
| Cenex 11-51-0----------Circle | | 4572 | 11 | 10.8 | 51 | 51.8 | | |
| Cenex 18-46-0----------Circle | | 4573 | 18 | 17.8 | 46 | 46.3 | | |
| Cenex 0-0-60----------Circle | | 4574 | | | | | 60 | 60.8 |
| Cenex 46-0-0----------Circle | | 4575 | 46 | 46.4 | | | | |
| Cenex 0-44-0----------Circle | | 4576 | | | 44 | 44.9 | | |
| Cenex 46-0-0----------Circle | | 4587 | 46 | 46.3 | | | | |
| Cenex 18-46-0----------Circle | | 4588 | 18 | 17.8 | 46 | 47.7 | | |
| Cenex 46-0-0----------Circle | | 4589 | 46 | 46.5 | | | | |
| ----------Columbus | | 4690 | 34 | 33.6 | | | | |
| ----------Columbus | | 4691 | 11 | 10.8 | 48 | 48.3 | | |
| ----------Columbus | | 4692 | 16 | 15.7 | 20 | 20.1 | | |
| ----------Columbus | | 4693 | 18 | 18.0 | 46 | 46.1 | | |
| ----------Columbus | | 4694 | | | 45 | 45.3 | | |
| ----------Hardin | | 4695 | 18 | 17.6 | 46 | 46.4 | | |
| ----------Hardin | | 4696 | 46 | 45.9 | | | | |
| ----------Hardin | | 4697 | | | 44 | 46.6 | | |
| ----------Hardin | | 4698 | | | | | 50 | 50.9 |
| ----------Edgar | | 4704 | 18 | 17.6 | 46 | 46.4 | | |
| ----------Edgar | | 4705 | 34 | 33.8 | | | | |
| ----------Edgar | | 4506 | 21 | 20.9 | | | | |
| Chevron Chemical Company<br>Ortho-Division<br>940 Beasley Street<br>Richmond, California 94804 | | | | | | | | |
| 34-0-0----------Shelby | | 4590 | 34 | 34.0 | | | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Chevron Chemical Company (continued) | | | | | | | | |
| 30-0-0 | Dillon | 4600 | 30 | 29.3 | | | | |
| 27-12-0 | Dillon | 4601 | 27 | 27.5 | 12 | 12.1 | | |
| 0-45-0 | Dillon | 4602 | | | 45 | 45.6 | | |
| 18-46-0 | Dillon | 4603 | 18 | 18.0 | 46 | 46.4 | | |
| 27-12-0 | Dillon | 4607 | 27 | 26.6 | 12 | 12.4 | | |
| ---------- | Great Falls | 4621 | 34 | 34.4 | | | | |
| 46-0-0 | Lewistown | 4663 | 46 | 46.5 | | | | |
| ---------- | Hardin | 4700 | 34 | 33.7 | | | | |
| 18-46-0 | Stevensville | 4725 | 18 | 18.0 | 46 | 46.5 | | |
| 27-12-0 | Stevensville | 4726 | 27 | 26.8 | 12 | 11.9 | | |
| 16-20-0 | Stevensville | 4727 | 16 | 15.9 | 20 | 20.4 | | |
| 16-16-16 | Stevensville | 4728 | 16 | 16.1 | 16 | 16.0 | 16 | 16.6 |
| 16-16-16 | Kalispell | 4746 | 16 | 15.8 | 16 | 15.3 | 16 | 16.4 |
| 34-0-0 | Kalispell | 4748 | 34 | 34.1 | | | | |
| 27-12-0 | Kalispell | 4749 | 27 | 26.3 | 12 | 12.3 | | |
| 32-0-0 | Hot Springs | 4789 | 32 | 31.3 | | | | |
| 16-16-16 | Plains | 4792 | 16 | 15.8 | 16 | 16.1 | 16 | 16.5 |
| 11-53-0 | Fort Benton | 4810 | 11 | 11.0 | 53 | 53.4 | | |
| 34-0-0 | Fort Benton | 4811 | 34 | 34.0 | | | | |
| 18-46-0 | Fort Benton | 4812 | 18 | 13.4 | 46 | 46.9 | | |
| 34-0-0 | Pendroy | 4824 | 34 | 34.0 | | | | |
| 34-0-0 | Conrad | 4831 | 34 | 33.9 | | | | |
| House Plant Food | Billings | 4893 | 5 | 4.8 | 10 | 10.3 | 5 | 4.9 |
| Fern & Ivy Food | Billings | 4894 | 10 | 10.8 | 8 | 8.1 | 7 | 7.0 |
| African Violet Food | Billings | 4895 | 6 | 6.0 | 9 | 10.1 | 5 | 5.7 |
| Pot & Planter | Billings | 4896 | 5 | 5.9 | 10 | 10.6 | 5 | 6.2 |
| Ortho 34-0-0 | Wolf Point | 4953 | 34 | 34.0 | | | | |
| Coast Trading Company<br>Box 7696<br>Missoula, Montana 59801 | | | | | | | | |
| 16-20-0 | Plains | 4794 | 16 | 16.3 | 20 | 20.5 | 14 | 15.1 |
| Cominco American, Inc.<br>West 818 Riverside<br>Spokane, Washington 99220 | | | | | | | | |
| Elephant 0-0-46 | Wolf Point | 4585 | | | | | 60 | 60.0 |
| Elephant 11-55-0 | Shelby | 4591 | 11 | 11.3 | 55 | 55.4 | | |
| Elephant 0-0-60 | Shelby | 4592 | | | | | 60 | 60.7 |
| Elephant 18-46-0 | Shelby | 4593 | 18 | 18.0 | 46 | 46.5 | | |
| 0-0-60 | Great Falls | 4599 | | | | | 60 | 61.2 |
| Elephant 34-0-0 | Fairview | 4635 | 34 | 34.2 | | | | |
| Elephant 34-0-0 | Fairview | 4636 | 34 | 34.1 | | | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Cominco American, Inc. (continued) | | | | | | | | |
| Elephant 11-55-0 | Fairview | 4637 | 11 | 11.2 | 55 | 55.7 | | |
| Elephant 18-46-0 | Fairview | 4638 | 18 | 18.1 | 46 | 46.4 | | |
| Elephant 0-0-60 | Fairview | 4639 | | | | | 60 | 59.7 |
| Elephant 18-46-0 | Reserve | 4643 | 18 | 18.1 | 46 | 46.4 | | |
| Elephant 34-0-0 | Reserve | 4645 | 34 | 34.3 | | | | |
| 11-55-0 | Stanford | 4650 | 11 | 11.1 | 55 | 55.5 | | |
| 0-0-60 | Stanford | 4651 | | | | | 60 | 60.9 |
| 46-0-0 | Stanford | 4652 | 46 | 46.0 | | | | |
| 18-46-0 | Stanford | 4653 | 18 | 18.5 | 46 | 46.5 | | |
| 11-55-0 | Moccasin | 4654 | 11 | 11.1 | 55 | 55.2 | | |
| 11-55-0 | Lewistown | 4664 | 11 | 12.1 | 55 | 55.1 | | |
| 0-0-60 | Lewistown | 4666 | | | | | 60 | 61.3 |
| 11-55-0 | Lewistown | 4670 | 11 | 11.4 | 55 | 55.5 | | |
| 46-0-0 | Lewistown | 4671 | 46 | 46.4 | | | | |
| 18-46-0 | Lewistown | 4672 | 18 | 18.2 | 46 | 47.2 | | |
| Elephant 16-20-0 | Laurel | 4681 | 16 | 16.5 | 20 | 20.0 | | |
| Elephant 11-55-0 | Laurel | 4682 | 11 | 11.4 | 55 | 56.0 | | |
| Elephant 46-0-0 | Laurel | 4683 | 46 | 45.8 | | | | |
| Elephant 18-46-0 | Laurel | 4684 | 18 | 18.2 | 46 | 46.5 | | |
| Elephant 0-0-60 | Laurel | 4685 | | | | | 60 | 61.8 |
| Elephant | Glasgow | 4713 | 18 | 18.1 | 46 | 47.0 | | |
| Elephant | Glasgow | 4714 | | | | | 60 | 61.0 |
| 34-0-0 | Hamilton | 4732 | 34 | 34.2 | | | | |
| 16-20-0 | Hamilton | 4733 | 16 | 16.3 | 20 | 20.2 | | |
| 11-55-0 | Hamilton | 4734 | 11 | 11.5 | 55 | 55.4 | | |
| 0-0-60 | Hamilton | 4735 | | | | | 60 | 60.3 |
| 16-20-0 | Kalispell | 4754 | 16 | 16.4 | 20 | 20.0 | | |
| 11-55-0 | Wilsall | 4772 | 11 | 11.2 | 55 | 55.3 | | |
| 35-17-0 Blend | Wilsall | 4773 | 35 | 34.3 | 17 | 18.5 | | |
| 46-0-0 | Wilsall | 4774 | 46 | 46.1 | | | | |
| 0-0-60 | Great Falls | 4776 | | | | | 60 | 62.0 |
| 46-0-0 | Great Falls | 4778 | 46 | 46.2 | | | | |
| 11-55-0 | Great Falls | 4779 | 11 | 11.4 | 55 | 55.1 | | |
| 0-0-60 | Great Falls | 4783 | | | | | 60 | 61.7 |
| 34-0-0 | Plains | 4793 | 34 | 34.2 | | | | |
| 21-0-0 | Plains | 4795 | 21 | 20.7 | | | | |
| 11-55-0 | Fort Benton | 4808 | 11 | 11.2 | 55 | 55.1 | | |
| 46-0-0 | Fort Benton | 4809 | 46 | 46.1 | | | | |
| 16-20-0 | Pendroy | 4823 | 16 | 16.6 | 20 | 20.1 | | |
| 0-0-60 | Pendroy | 4825 | | | | | 60 | 56.6 |
| 0-0-60 | Conrad | 4832 | | | | | 60 | 60.6 |
| 0-0-60 | Conrad | 4840 | | | | | 60 | 61.6 |
| 18-46-0 | Conrad | 4841 | 18 | 18.4 | 46 | 46.9 | | |
| 46-0-0 | Conrad | 4842 | 46 | 45.6 | | | | |
| 11-55-0 | Conrad | 4843 | 11 | 11.2 | 55 | 55.6 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Cominco American, Inc. (continued) | | | | | | | | |
| 16-20-0 | Conrad | 4844 | 16 | 16.0 | 20 | 22.0 | | |
| Elephant 18-46-0 | Glendive | 4908 | 18 | 18.1 | 46 | 46.0 | | |
| Elephant 34-0-0 | Culbertson | 4912 | 34 | 33.9 | | | | |
| Elephant 11-55-0 | Culbertson | 4913 | 11 | 11.1 | 55 | 55.8 | | |
| Elelphant 18-46-0 | Culbertson | 4914 | 18 | 18.1 | 46 | 46.6 | | |
| Elephant 46-0-0 | Culbertson | 4915 | 46 | 45.8 | | | | |
| 0-0-60 | Havre | 4936 | | | | | 60 | 61.6 |
| Con Agra, Incorporated<br>200 Kiewitt Plaza<br>Omaha, Nebraska 68131 | | | | | | | | |
| | Deer Lodge | 4608 | 13.1 | 13.6 | 16.4 | 18.9 | 9.7 | 8.4 |
| | Deer Lodge | 4609 | 21.3 | 25.5 | 10.7 | 7.9 | 10.7 | 6.2 |
| | Deer Lodge | 4610 | 34.0 | 34.4 | | | | |
| | Deer Lodge | 4611 | 29.0 | 27.7 | 14 | 16.7 | | |
| | Deer Lodge | 4612 | 30.0 | 30.0 | | | | |
| | Hardin | 4699 | | | | | 60 | 60.6 |
| 30-10-0 | Hardin | 4775 | 30 | 28.5 | 10 | 16.2 | | |
| 11-55-0 | Great Falls | 4780 | 11 | 11.1 | 55 | 55.0 | | |
| 21-0-0-24 | Great Falls | 4781 | 21 | 21.1 | | | | |
| 16-20-0-14 | Great Falls | 4782 | 16 | 16.0 | 20 | 23.5 | | |
| 18-46-0 | Great Falls | 4785 | 18 | 17.7 | 46 | 46.3 | | |
| Con Agra, Incorporated<br>Belgrade, Montana 59714 | | | | | | | | |
| Con Agra 30-10-10 | Laurel | 4680 | 30 | 31.0 | 10 | 9.4 | | |
| Con Agra, Incorporated<br>Havre, Montana 59501 | | | | | | | | |
| 11-51-0 | Havre | 4934 | 11 | 11.7 | 51 | 51.2 | | |
| 18-46-0 | Havre | 4935 | 18 | 18.0 | 46 | 46.8 | | |
| 11-48-0 | Havre | 4938 | 11 | 11.2 | 48 | 48.1 | | |
| Con Agra, Incorporated<br>Wolf Point, Montana 59201 | | | | | | | | |
| Con Agra | Wolf Point | 4952 | 18 | 18.0 | 46 | 46.3 | | |
| Coop Supply<br>Conrad, Montana 59425 | | | | | | | | |
| 16-20-0 | Conrad | 4853 | 16 | 16.0 | 20 | 20.2 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| **Dexol Industries**<br>**1450 West 228th Street**<br>**Torrance, California 90501** | | | | | | | | |
| 5-2-2 | Bozeman | 4868 | 5 | 4.9 | 2 | 4.2 | 2 | 2.2 |
| 10-10-5 | Bozeman | 4869 | 10 | 9.2 | 10 | 11.9 | 5 | 5.3 |
| **Equity Coop**<br>**2001 Front Street**<br>**Brady, Montana 59416** | | | | | | | | |
| 11-51-0 | Brady | 4826 | 11 | 10.4 | 51 | 51.8 | | |
| 34-0-0 | Brady | 4827 | 34 | 34.1 | | | | |
| 0-0-60 | Brady | 4828 | | | | | 60 | 60.1 |
| 16-20-0 | Brady | 4829 | 16 | 15.8 | 20 | 20.0 | | |
| 0-44-0 | Brady | 4830 | | | 44 | 46.0 | | |
| **Equity Supply Company**<br>**6th Avenue West and Center Street**<br>**Kalispell, Montana 59901** | | | | | | | | |
| 21-0-0 | Kalispell | 4736 | 21 | 20.8 | | | | |
| 18-46-0 | Kalispell | 4737 | 18 | 18.2 | 46 | 47.6 | | |
| 16-16-16 | Kalispell | 4738 | 16 | 15.8 | 16 | 15.9 | 16 | 16.6 |
| 16-20-0 | Kalispell | 4739 | 16 | 16.0 | 20 | 20.0 | | |
| 34-0-0 | Kalispell | 4740 | 34 | 34.1 | | | | |
| 16-20-0 | Kalispell | 4741 | 16 | 16.0 | 20 | 20.0 | | |
| 11-55-0 | Kalispell | 4742 | 11 | 11.5 | 55 | 55.3 | | |
| 46-0-0 | Kalispell | 4743 | 46 | 45.8 | | | | |
| 16-20-0 | Kalispell | 4744 | 16 | 16.5 | 20 | 21.4 | | |
| 11-55-0 | Kalispell | 4745 | 11 | 11.2 | 55 | 55.2 | | |
| 21-0-0 | Kalispell | 4747 | 21 | 21.0 | | | | |
| 9-0-0 | Kalispell | 4751 | 9 | 9.2 | | | | |
| 23-7-4 | Kalispell | 4752 | 23 | 24.7 | 7 | 7.2 | 14 | 13.9 |
| **Exxon Chemical Company**<br>**Box 3272**<br>**Houston, Texas 77001** | | | | | | | | |
| Exxon 46-0-0 | Wolf Point | 4577 | 46 | 46.0 | | | | |
| Exxon 18-46-0 | Wolf Point | 4578 | 18 | 18.1 | 46 | 46.7 | | |
| Exxon 11-55-0 | Wolf Point | 4579 | 11 | 12.0 | 55 | 55.5 | | |
| 46-0-0 | Great Falls | 4594 | 46 | 45.9 | | | | |
| 18-46-0 | Great Falls | 4596 | 18 | 18.0 | 46 | 46.8 | | |
| 11-55-0 | Great Falls | 4597 | 11 | 11.6 | 55 | 55.1 | | |
| 21-0-0 | Great Falls | 4598 | 21 | 20.9 | | | | |
| ---------- | Havre | 4630 | 11 | 11.1 | 55 | 54.9 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Exxon Chemical Company (continued) | | | | | | | | |
| ----------Havre | Havre | 4631 | 11 | 11.0 | 48 | 48.3 | | |
| ----------Havre | Havre | 4632 | 46 | 46.0 | | | | |
| ----------Havre | Havre | 4633 | 18 | 18.1 | 46 | 46.6 | | |
| ----------Havre | Havre | 4634 | | | | | 60 | 58.8 |
| 34-0-0----------Moore | Moore | 4660 | 34 | 33.9 | | | | |
| 11-55-0----------Moore | Moore | 4661 | 11 | 12.0 | 55 | 55.0 | | |
| 18-46-0----------Moore | Moore | 4662 | 18 | 17.7 | 46 | 46.4 | | |
| 18-46-0----------Lewistown | Lewistown | 4668 | 18 | 18.3 | 46 | 46.5 | | |
| 11-55-0----------Lewistown | Lewistown | 4669 | 11 | 11.6 | 55 | 55.3 | | |
| Exxon 34-0-0----------Laurel | Laurel | 4678 | 34 | 33.9 | | | | |
| Exxon 16-20-0----------Laurel | Laurel | 4679 | 16 | 16.1 | 20 | 24.0 | | |
| ----------Wolf Point | Wolf Point | 4718 | 18 | 18.0 | 46 | 46.3 | | |
| ----------Wolf Point | Wolf Point | 4719 | 11 | 11.0 | 55 | 55.3 | | |
| ----------Wolf Point | Wolf Point | 4720 | 11 | 11.3 | 48 | 48.0 | | |
| 18-46-0----------White Sulphur Springs | White Sulphur Springs | 4770 | 18 | 18.1 | 46 | 46.3 | | |
| 34-0-0----------White Sulphur Springs | White Sulphur Springs | 4771 | 34 | 33.0 | | | | |
| 46-0-0----------Great Falls | Great Falls | 4784 | 46 | 46.3 | | | | |
| 34-0-0----------Geyser | Geyser | 4800 | 34 | 34.1 | | | | |
| 27-14-0----------Geyser | Geyser | 5801 | 27 | 30.1 | 14 | 11.1 | | |
| 11-55-0----------Geyser | Geyser | 5802 | 11 | 11.4 | 55 | 55.3 | | |
| 11-51-0----------Reserve | Reserve | 5911 | 11 | 11.3 | 51 | 53.6 | | |
| Farmers Union Central Exchange<br>Box 43089<br>St. Paul, Minnesota 55164 | | | | | | | | |
| Cenex 21-0-0----------Billings | Billings | 4686 | 21 | 20.9 | | | | |
| Cenex 18-46-0----------Billings | Billings | 4687 | 18 | 17.6 | 46 | 46.1 | | |
| Cenex 11-51-0----------Billings | Billings | 4688 | 11 | 10.9 | 51 | 51.3 | | |
| Cenex 34-0-0----------Billings | Billings | 4689 | 34 | 33.7 | | | | |
| 0-0-60----------St. Paul | St. Paul | 4721 | | | | | 60 | 60.1 |
| 0-44-0----------St. Paul | St. Paul | 4722 | | | 44 | 44.0 | | |
| 0-0-50----------Kalispell | Kalispell | 4756 | | | | | 50 | 48.9 |
| 0-0-60----------Geraldine | Geraldine | 4799 | | | | | 60 | 60.1 |
| 11-51-0----------Fort Benton | Fort Benton | 4804 | 11 | 10.8 | 51 | 51.1 | | |
| 0-0-60----------Fort Benton | Fort Benton | 4805 | | | | | 60 | 60.0 |
| 18-46-0----------Fort Benton | Fort Benton | 4806 | 18 | 17.2 | 46 | 46.4 | | |
| 46-0-0----------Fort Benton | Fort Benton | 4807 | 46 | 46.1 | | | | |
| 46-0-0----------Great Falls | Great Falls | 4815 | 46 | 46.0 | | | | |
| 18-46-0----------Great Falls | Great Falls | 4816 | 18 | 18.0 | 46 | 46.4 | | |
| 11-51-0----------Great Falls | Great Falls | 4817 | 11 | 11.0 | 51 | 51.0 | | |
| 21-0-0----------Great Falls | Great Falls | 4818 | 21 | 20.9 | | | | |
| 0-0-60----------Great Falls | Great Falls | 4819 | | | | | 60 | 60.1 |
| 18-46-0----------Great Falls | Great Falls | 4820 | 18 | 18.0 | 46 | 46.1 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Farmers Union Central Exchange (continued) | | | | | | | | |
| 21-0-0 | Power | 4835 | 21 | 20.7 | | | | |
| 34-0-0 | Power | 4836 | 34 | 34.0 | | | | |
| 11-51-0 | Power | 4837 | 11 | 11.2 | 51 | 56.6 | | |
| 0-0-60 | Power | 4838 | | | | | 60 | 63.3 |
| 18-46-0 | Power | 4839 | 18 | 16.9 | 46 | 46.7 | | |
| 18-46-0 | Valier | 4848 | 18 | 17.9 | 46 | 46.3 | | |
| 11-51-0 | Valier | 4849 | 11 | 10.7 | 51 | 51.0 | | |
| 46-0-0 | Valier | 4850 | 46 | 46.0 | | | | |
| 34-0-0 | Conrad | 4851 | 34 | 34.1 | | | | |
| 16-20-0 | Valier | 4852 | 16 | 15.7 | 20 | 20.6 | | |
| 21-0-0 | Billings | 4860 | 21 | 21.1 | | | | |
| 34-0-0 | Billings | 4861 | 34 | 34.0 | | | | |
| 34-0-0 | Billings | 4862 | 34 | 34.1 | | | | |
| 0-0-60 | Billings | 4863 | | | | | 60 | 61.5 |
| C.E. 18-46-0 | Lambert | 4899 | 18 | 17.7 | 46 | 46.0 | | |
| C.E. 46-0-0 | Lambert | 4900 | 46 | 45.9 | | | | |
| C.E. 0-44-0 | Lambert | 4901 | | | 44 | 45.2 | | |
| C.E. 11-51-0 | Lambert | 4902 | 11 | 10.8 | 51 | 51.7 | | |
| C.E. 11-51-0 | Froid | 4909 | 11 | 10.8 | 51 | 51.1 | | |
| C.E. 18-46-0 | Froid | 4910 | 18 | 18.0 | 46 | 46.5 | | |
| C.E. 18-46-0 | Glasgow | 4916 | 18 | 18.0 | 46 | 46.8 | | |
| C.E. 21-0-0 | Glasgow | 4917 | 21 | 20.9 | | | | |
| C.E. 46-0-0 | Glasgow | 4918 | 46 | 46.3 | | | | |
| C.E. 0-0-60 | Glasgow | 4919 | | | | | 60 | 63.9 |
| 18-46-0 | Big Sandy | 4922 | 18 | 18.1 | 46 | 46.8 | | |
| 46-0-0 | Big Sandy | 4923 | 46 | 46.1 | | | | |
| 0-0-60 | Big Sandy | 4924 | | | | | 60 | 63.4 |
| 18-46-0 | Chinook | 4925 | 18 | 17.5 | 46 | 46.1 | | |
| 11-51-0 | Chinook | 4926 | 11 | 10.8 | 51 | 51.1 | | |
| 46-0-0 | Havre | 4939 | 46 | 46.1 | | | | |
| 18-46-0 | Havre | 4940 | 18 | 17.9 | 46 | 46.3 | | |
| 0-0-60 | Havre | 4941 | | | | | 60 | 62.4 |
| 11-51-0 | Havre | 4942 | 11 | 10.7 | 51 | 49.8 | | |
| 18-46-0 | Havre | 4943 | 18 | 17.7 | 46 | 46.1 | | |
| 18-46-0 | Havre | 4944 | 18 | 17.9 | 46 | 46.8 | | |
| Cenex 18-46-0 | Baker | 4945 | 18 | 18.1 | 46 | 46.8 | | |
| Cenex 0-44-0 | Baker | 4946 | | | 44 | 44.0 | | |
| Cenex 0-0-60 | Baker | 4947 | | | | | 60 | 62.8 |
| Cenex 46-0-0 | Baker | 4948 | 46 | 46.1 | | | | |
| Cenex 11-51-0 | Savage | 4950 | 11 | 10.6 | 51 | 50.9 | | |
| Cenex 18-46-0 | Savage | 4951 | 18 | 17.6 | 46 | 46.3 | | |
| Cenex 46-0-0 | Wolf Point | 4955 | 46 | 46.0 | | | | |
| Cenex 11-51-0 | Wolf Point | 4956 | 11 | 10.0 | 51 | 50.8 | | |
| Cenex 18-46-0 | Wolf Point | 4957 | 18 | 17.5 | 46 | 46.3 | | |
| Cenex 18-46-0 | Wolf Point | 4958 | 18 | 18.4 | 46 | 46.0 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Farmers Union Central Exchange (continued) | | | | | | | | |
| Cenex 18-46-0 | Wolf Point | 4959 | 18 | 18.4 | 46 | 46.0 | | |
| Farmers Union GTA Feeds<br>Box 1447<br>Sioux Falls, South Dakota 57101 | | | | 1 | 46 | 4 | | |
| 34-0-0 | Stanford | 4647 | 34 | 34.0 | | | | |
| 18-46-0 | Stanford | 4648 | 18 | 18.0 | 46 | 47.3 | | |
| 0-0-60 | Stanford | | | | | | 60 | 61.0 |
| Farmers Union GTA<br>Valier, Montana 59486 | | | | | | | | |
| 18-46-0 | Valier | 4845 | 18 | 17.8 | 46 | 47.6 | | |
| 34-0-0 | Valier | 4846 | 34 | 33.9 | | | | |
| 0-0-60 | Valier | 4847 | | | | | 60 | 62.7 |
| Greenfield Farmers Oil Company<br>Fairfield, Montana 59436 | | | | | | | | |
| Bulk Blend | Fairfield | 4646 | 12 | 6.2 | 30.67 | 15.5 | 20.0 | 37.9 |
| High Line Fertilizer<br>Hingham, Montana 59528 | | | | | | | | |
| ---------- | Richey | 4709 | 11 | 11.0 | 51 | 51.2 | | |
| ---------- | Richey | 4710 | 34 | 34.0 | | | | |
| ---------- | Richey | 4711 | 18 | 17.2 | 46 | 46.5 | | |
| The Hyponex Company, Incorporated<br>3489 Sawmill Road<br>Copley, Ohio 44321 | | | | | | | | |
| Hyponex House Plant Food | Billings | 4892 | 7 | 7.8 | 6 | 6.4 | 19 | 19.9 |
| IMC, Department SPM<br>421 East Howley<br>Mundelein, Illinois 60606 | | | | | | | | |
| Sul-Po-Mg | Hamilton | 4858 | | | | | 22 | 23.2 |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| International Spike, Incorporated<br>1081 Dove Run Road, Box 1750<br>Lexington, Kentucky 40593 | | | | | | | | |
| 16-8-8 | Billings | 4897 | 16 | 17.4 | 8 | 12.3 | 8 | 9.9 |
| Irrigation Equipment<br>Box F, Highway #28<br>Hot Springs, Montana 59845 | | | | | | | | |
| 10-34-0 | Hot Springs | 4790 | 10 | 9.6 | 34 | 32.2 | | |
| 12-0-0 | Hot Springs | 4791 | 12 | 11.7 | | | | |
| Kalispell Feed & Grain<br>3450 Highway 93<br>Kalsipell, Montana 59901 | | | | | | | | |
| 32-0-0 | Kalispell | 4786 | 32 | 31.6 | | | | |
| 10-34-0 | Kalispell | 4787 | 10 | 10.1 | 34 | 34.4 | | |
| 10-33-0 | Kalispell | 4788 | 10 | 10.0 | 33 | 34.1 | | |
| Kernaghans<br>106 Central West<br>Great Falls, Montana 59401 | | | | | | | | |
| 11-55-0 | Carter | 4813 | 11 | 11.2 | 55 | 55.3 | | |
| 34-0-0 | Carter | 4814 | 34 | 33.9 | | | | |
| Leeming Division, Pfizer Incorporated<br>235 East 42 Street<br>New York, New York 10017 | | | | | | | | |
| 5-5-4 | Helena | 4866 | 5 | 5.1 | 5 | 5.6 | 4 | 5.2 |
| 1-2-1 | Helena | 4867 | 1 | 1.1 | 2 | 2.4 | 1 | 1.5 |
| The Leisure Group-Black Magic<br>1035 Watsoncenter Road<br>Carson, California 90745 | | | | | | | | |
| 4-10-10 | Dillon | 4886 | 4 | 4.1 | 10 | 10.3 | 10 | 11.2 |
| 3M Company<br>3M Center, Bldg. 223-1N<br>St. Paul, Minnesota 55101 | | | | | | | | |
| 12-6-6 | Great Falls | 4872 | 12 | 13.5 | 6 | 6.7 | 6 | 6.5 |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| Montgomery Ward and Company<br>900 10th Avenue South<br>Great Falls, Montana 59401 | | | | | | | | |
| 26-3-3 | Great Falls | 4800 | 26 | 26.7 | 3 | 4.0 | 3 | 3.0 |
| Northrup King Company<br>1500 Jackson Street North East<br>Minneapolis, Minnesota 55413 | | | | | | | | |
| Lawn Food 22-5-9 | Butte | 4884 | 22 | 24.1 | 5 | 5.1 | 9 | 6.9 |
| Occidental Chemcial Company<br>Box 198<br>Lathrop, California 95330 | | | | | | | | |
| ---------- | Great Falls | 4619 | 16 | 15.9 | 20 | 20.5 | | |
| 16-20-0 | Great Falls | 4777 | 16 | 15.9 | 20 | 20.8 | | |
| Pacific Supply Company<br>Portland, Oregon | | | | | | | | |
| 23-23-0 | Hall | 4797 | 23 | 22.9 | 23 | 22.9 | | |
| 26-13-0 | Hall | 4798 | 26 | 26.7 | 13 | 13.0 | | |
| Car Number CPP 382243 | | | | | | | | |
| ---------- | Wolf Point | 4954 | 18 | 18.2 | 46 | 46.3 | | |
| Plantabbs<br>Timonium, Maryland 21093 | | | | | | | | |
| 11-15-20 | Helena | 4864 | 11 | 11.3 | 15 | 15.4 | 20 | 22.4 |
| 11-15-20 | Helena | 4865 | 11 | 11.8 | 15 | 16.6 | 20 | 20.2 |
| Ra-Pid-Gro Corporation<br>88 Ossian Street<br>Dansville, New Jersey 14437 | | | | | | | | |
| 23-19-17 | Helena | 4870 | 23 | 23.0 | 19 | 19.5 | 17 | 18.0 |
| Ross Daniels, Incorporated<br>1720 Fuller Road, Box 430<br>West Des Moines, Iowa 50265 | | | | | | | | |
| 5-25-10 | Dillon | 4885 | 5 | 6.3 | 25 | 35.6 | 10 | 10.8 |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| **O.M. Scott and Sons Company**<br>**Marysville, Ohio 43040** | | | | | | | | |
| 18-24-6 | Dillon | 4887 | 18 | 17.8 | 24 | 24.6 | 6 | 5.1 |
| 22-3-3 | Dillon | 4888 | 22 | 22.7 | 3 | 3.2 | 3 | 3.4 |
| 30-5-3 | Dillon | 4899 | 30 | 29.9 | 5 | 5.0 | 3 | 5.7 |
| 22-3-3 | Dillon | 4890 | 22 | 22.6 | 3 | 3.2 | 3 | 3.4 |
| 18-24-6 | Dillon | 4891 | 18 | 18.0 | 24 | 24.5 | 6 | 7.0 |
| **Sears Roebuck and Company**<br>**Sears Tower**<br>**Chicago, Illinois 60684** | | | | | | | | |
| 5-10-5 | Great Falls | 4877 | 5 | 7.4 | 10 | 9.0 | 5 | 5.8 |
| **Selstad Soil Service**<br>**Route 1 West**<br>**Great Falls, Montana 59401** | | | | | | | | |
| 10-34-0 | Geraldine | 4803 | 10 | 9.8 | 34 | 34.0 | | |
| **The Sewerage Commission**<br>**700 East Jones Street, Box 2079**<br>**Milwaukee, Wisconsin 53201** | | | | | | | | |
| 6-2-0 | Kalispell | 6 | 6.3 | 2 | 2.1 | | | |
| **Sheritt Fertilizer, Incorporated**<br>**103 Cascade Plaza 2828 South West Corbett Avenue**<br>**Portland, Oregon 97201** | | | | | | | | |
| 21-0-0 | Stevensville | 4723 | 21 | 20.9 | | | | |
| **J.R. Simplot**<br>**Box 912**<br>**Pocatello, Idaho 83201** | | | | | | | | |
| Simplot 18-46-0 | Wolf Point | 4584 | 18 | 18.0 | 46 | 46.1 | | |
| Simplot 34-0-0 | Wolf Point | 4586 | 34 | 34.0 | | | | |
| 0-0-60 | Dillon | 4604 | | | | | 60 | 60.9 |
| 21-0-0 | Dillon | 4605 | 21 | 21.0 | | | | |
| 0-45-0 | Dillon | 4606 | | | 45 | 46.2 | | |
| | Harlem | 4624 | 18 | 17.8 | 46 | 46.0 | | |
| 18-46-0 | Moccasin | 4655 | 18 | 17.7 | 46 | 46.8 | | |
| 18-46-0 | Lewistown | 4665 | 18 | 18.4 | 46 | 46.1 | | |
| Simplot 16-20-0 | Billings | 4673 | 16 | 16.0 | 20 | 21.4 | | |
| Simplot 0-45-0 | Billings | 4674 | | | 45 | 45.0 | | |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| J.R. Simplot Company (continued) | | | | | | | | |
| Simplot 34-0-0 | Billings | 4675 | 34 | 34.0 | | | | |
| Simplot 18-46-0 | Billings | 4676 | 18 | 18.8 | 46 | 45.8 | | |
| Simplot 0-0-60 | Billings | 4677 | | | | | 60 | 61.1 |
| ---------- | Hardin | 4701 | 16 | 15.8 | 20 | 21.0 | | |
| ---------- | Hardin | 4702 | 18 | 17.6 | 46 | 47.2 | | |
| ---------- | Hardin | 4703 | | | 45 | 45.3 | | |
| ---------- | Glasgow | 4715 | 34 | 34.1 | | | | |
| Simplot 11-52-0 | Sidney | 4903 | 11 | 11.3 | 52 | 52.5 | | |
| Simplot 18-46-0 | Sidney | 4904 | 18 | 17.7 | 46 | 46.7 | | |
| Simplot 11-52-0 | Glendive | 4905 | 11 | 11.0 | 52 | 52.1 | | |
| Simplot 0-45-0 | Glendive | 4906 | | | 45 | 45.1 | | |
| Simplot 18-46-0 | Glendive | 4907 | 18 | 18.0 | 46 | 46.5 | | |
| 18-46-0 | Havre | 4927 | 18 | 18.0 | 46 | 46.0 | | |
| 18-46-0 | Havre | 4937 | 18 | 18.0 | 46 | 46.0 | | |
| 18-46-0 | Baker | 4949 | 18 | 17.8 | 46 | 46.7 | | |
| Stauffer Chemical Company<br>636 California Street<br>San Francisco, California 94108 | | | | | | | | |
| ---------- | Havre | 4614 | 18 | 17.5 | 46 | 46.5 | | |
| 16-20-0 | Stevensville | 4724 | 16 | 16.0 | 20 | 20.7 | | |
| 16-20-0 | Stevensville | 4731 | 16 | 16.2 | 20 | 19.9 | | |
| Stauffer Chemical Company<br>Kellogg, Idaho | | | | | | | | |
| 16-20-0 | Hall | 4796 | 16 | 16.3 | 20 | 20.0 | | |
| Sterns Nurseries<br>607 West Washington Street<br>Geneva, Washington 14456 | | | | | | | | |
| 15-30-15 | Great Falls | 4874 | 15 | 15.3 | 30 | 31.5 | 15 | 16.8 |
| Swift Agriculture Chemicals Corporation<br>4060 East 26th Street<br>Los Angeles, California 90023 | | | | | | | | |
| 10-5-5 | Great Falls | 4873 | 10 | 8.2 | 5 | 5.6 | 5 | 3.7 |
| 20-10-15 | Great Falls | 4875 | 20 | 19.7 | 10 | 11.0 | 15 | 10.8 |
| 25-10-10 | Great Falls | 4876 | 25 | 24.4 | 10 | 8.9 | 10 | 10.8 |

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | TOTAL NITROGEN | | AVAILABLE PHOSPHORIC ACID ($P_2O_5$) | | SOLUBLE POTASH ($K_2O$) | |
|---|---|---|---|---|---|---|---|---|
| | | | Claimed | Found | Claimed | Found | Claimed | Found |
| U.S. Steel<br>10 East South Temple #1250<br>Salt Lake City, Utah 84133 | | | | | | | | |
| ----------Havre | | 4613 | 34 | 33.9 | | | | |
| USS Agri-Chemicals, Division of U.S. Steel<br>10 East South Temple 31250<br>Salt Lake City, Utah 84133 | | | | | | | | |
| 34-0-0----------Hamilton | | 4730 | 34 | 34.0 | | | | |
| Zoecon Corporation<br>Best Products Division<br>975 California Avenue<br>Palo Alto, California 94304 | | | | | | | | |
| 20-5-5----------Great Falls | | 4881 | 20 | 20.7 | 5 | 3.6 | 5 | 4.2 |
| 26-3-3----------Great Falls | | 4882 | 26 | 24.4 | 3 | 4.4 | 3 | 3.7 |
| 22-3-3----------Great Falls | | 4883 | 22 | 22.3 | 3 | 3.9 | 3 | 3.8 |

## MICRONUTRIENT ANALYSES

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | MICRONUTRIENT | claimed | found |
|---|---|---|---|---|---|
| **Agricultural Management Services**<br>800 Crescent Drive<br>Great Falls, Montana 59401 | | | | | |
| ---------- | Great Falls | 4620 | Sulphur | 5.3 | 5.9 |
| ---------- | Great Falls | 4622 | Sulphur | 6.1 | 6.6 |
| **Coast Trading Company**<br>Box 7696<br>Missoula, Montana 59801 | | | | | |
| 16-20-0---------- | Plains | 4794 | Sulphur | 14 | 15.1 |
| **Con Agra, Incorporated**<br>200 Kiewitt Plaza<br>Omaha, Nebraska 68131 | | | | | |
| ---------- | Deer Lodge | 4608 | Sulphur | 11.5 | 11.3 |
| ---------- | Deer Lodge | 4609 | Sulphur | 5.3 | 4.5 |
| ---------- | Deer Lodge | 4612 | Sulphur | 7.5 | 8.5 |
| 21-0-0-24---------- | Great Falls | 4781 | Sulphur | 24 | 24.5 |
| 16-20-0-14---------- | Great Falls | 4782 | Sulphur | 14 | 13.4 |
| **Dexol Industries**<br>1450 West 228th Street<br>Torrance, California 90501 | | | | | |
| 10-10-5---------- | Bozeman | 4869 | Manganese | .05 | .067 |
| 10-10-5---------- | Bozeman | 4869 | Iron | .10 | .113 |
| 10-10-5---------- | Bozeman | 4869 | Zinc | .05 | .058 |
| **Forminco, Incorporated**<br>Box 1086<br>Beaver, Utah 84713 | | | | | |
| Mother Earth Sulphur Soil--------- | Beaver | 4859 | Iron | .7 | 1.5 |
| Mother Earth Sulphur Soil--------- | Beaver | 4859 | Sulphur | 17 | 17.4 |
| **Greenacres Gypsum and Lime Company, Incorporated**<br>Box 250<br>Green Acres, Washington 99016 | | | | | |
| Gypsum---------- | Fairfield | 4750 | Calcium | 20 | 22.1 |

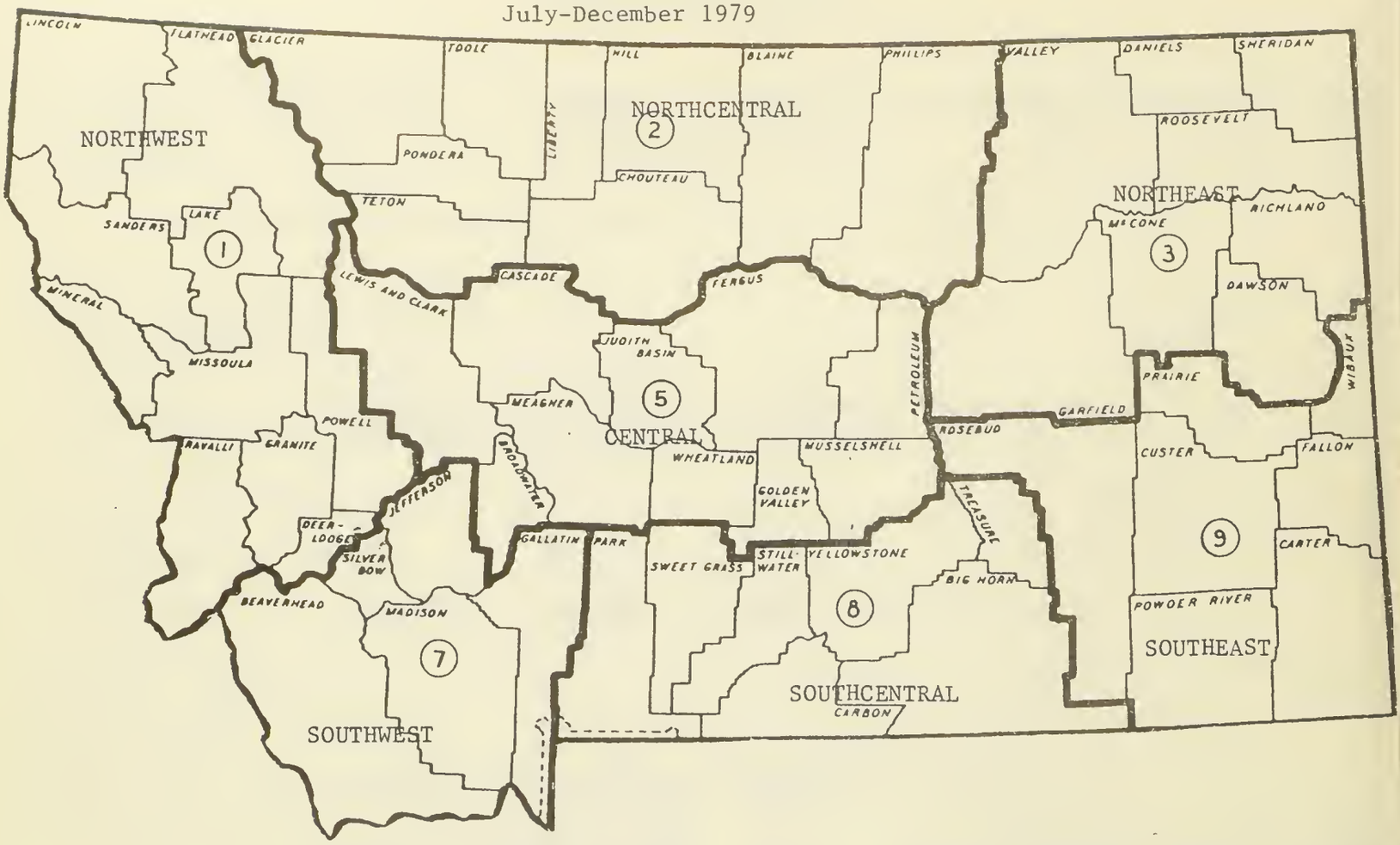
## MICRONUTRIENT ANALYSES

| NAME AND ADDRESS OF MANUFACTURER OR DISTRIBUTOR<br>BRAND AND NAME OF PRODUCT | PLACE OF COLLECTION | SAMPLE NUMBER | MICRONUTRIENT | claimed | found |
|---|---|---|---|---|---|
| IMC Department SPM<br>421 East Howley<br>Mundelein, Illinois | | | | | |
| Sul-Po-Mg | Hamilton | 4858 | Magnesium | 11.1 | 11.3 |
| Sul-Po-Mg | Hamilton | 4858 | Sulphur | 22 | 21.9 |
| Irrigation Equipment<br>Box f, Highway #28<br>Hot Springs, Montana 59845 | | | | | |
| 12-0-0 | Hot Springs | 4791 | Sulphur | 26 | 26.0 |
| Occidental Chemical Company<br>Box 198<br>Lathrop, California 95330 | | | | | |
| ---------- | Great Falls | 4619 | Sulphur | 14 | 13.9 |
| Ross Daniels, Incorporated<br>1720 Fuller Road, Box 430<br>West Des Moines, Iowa 50265 | | | | | |
| 5-25-10 | Dillon | 4885 | Iron | 1 | 1.2 |
| O.M. Scott and Sons Company<br>Marysville, Ohio 43040 | | | | | |
| 22-3-3 | Dillon | 4888 | Iron | 1.5 | 2.5 |
| 22-3-3 | Dillon | 4890 | Iron | 1.26 | 2.5 |

FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA

By Crop Reporting Districts

July-December 1979




| | NORTH WEST | NORTH CENTRAL | NORTH EAST | CENTRAL | SOUTH WEST | SOUTH CENTRAL | SOUTH EAST | OUT OF STATE |
|---|---|---|---|---|---|---|---|---|
| Ammonium Nitrate | 560 | 6,100 | 1,119 | 4,111 | 1,824 | 4,710 | 702 | 97 |
| Urea | 45 | 4,062 | 759 | 1,864 | 125 | 1,126 | 171 | 69 |
| Other Nigrogen Sources | 390 | 2,413 | 590 | 1,836 | 1,222 | 2,868 | 155 | 197 |
| $P_2O_5$ Sources | 84 | 114 | 535 | 243 | 382 | 540 | 527 | 0 |
| Potash | 275 | 1,638 | 589 | 1,029 | 116 | 377 | 398 | 0 |
| 18-46-0 | 440 | 9,253 | 5,416 | 4,870 | 482 | 5,486 | 3,202 | 0 |
| 11-48-0 | 0 | 610 | 225 | 7 | 0 | 93 | 0 | 0 |
| 11-55-0 | 369 | 6,189 | 1,974 | 4,220 | 735 | 910 | 258 | 2,279 |
| 16-20-0 | 764 | 470 | 0 | 482 | 1,172 | 1,737 | 15 | 178 |
| 2-1-0- | 355 | 60 | 0 | 84 | 411 | 3 | 0 | 0 |
| 1-1-0 | 0 | 57 | 1 | 197 | 4 | 35 | 0 | 0 |
| 1-1-1 | 179 | 120 | 0 | 0 | 0 | 0 | 0 | 0 |
| Micellaneous | 812 | 736 | 333 | 881 | 93 | 675 | 6 | 345 |
| Miscellanious Liquid | 474 | 2,514 | 58 | 1,416 | 5 | 875 | 0 | 242 |
| Gypsum, Lime, & Sulphur | 52 | 125 | 58 | 447 | 91 | 718 | 6 | 649 |
| TOTAL TONS | 4,799 | 34,465 | 11,673 | 21,846 | 6,699 | 20,818 | 5,460 | 4,056 |

MONTANA DEPARTMENT OF AGRICULTURE

SUMMARY OF FERTILIZER AND FERTILIZER MATERIAL SOLD IN MONTANA

1979

| | MATERIALS | Jan-Jun (tons) | July-Dec. | Total |
|---|---|---|---|---|
| 1. | Anhydrous Ammonia (82-0-0) | 7,071 | 4,093 | 11,164 |
| 2. | Ammonium Nitrate | 52,592 | 19,126 | 71,718 |
| 3. | Ammonium Sulfate (21-0-0) | 4,759 | 1,970 | 6,729 |
| 4. | Urea | 25,440 | 8,152 | 33,592 |
| 5. | Nitrogen Solutions (Aqua Ammonia, Urea Solutions and Urea, Ammonia Nitrate Solutions) | 6,630 | 3,411 | 10,041 |
| 6. | 0-45-0, 0-44-0 | 4,887 | 2,426 | 7,313 |
| 7. | Phosphoric Acid | 278 | 197 | 475 |
| 8. | Gypsum, Lime and Sulphur | 3,965 | 789 | 4,754 |
| 9. | Potash | 11,145 | 4,422 | 15,567 |
| 10. | Micro Nutrient Materials | 689 | 708 | 1,397 |
| | AMMONIATED PHOSPHATES AND MIXTURES | | | |
| 11. | 18-46-0 | 48,135 | 29,149 | 77,284 |
| 12. | 16-20-0 | 10,650 | 4,740 | 15,390 |
| 13. | 11-48-0 | 1,535 | 935 | 2,470 |
| 14. | 11-55-0 | 15,787 | 14,655 | 30,442 |
| 15. | 30-10-0 | 927 | 207 | 1,134 |
| 16. | 27-14-0 | 2,200 | 457 | 2,657 |
| 17. | 27-12-0, 29-14-0, 28-14-0 | 3,264 | 913 | 4,177 |
| 18. | 1-1-0 ratios such as 23-23-0 | 1,032 | 294 | 1,326 |
| 19. | 1-1-1 ratios such as 16-16-16 | 1,363 | 299 | 1,662 |
| 20. | Miscellaneous farm grades | 10,205 | 3,501 | 13,706 |
| 21. | Miscellaneous specialty grades | 553 | 32 | 585 |
| 22. | Liquid Mixtures | 5,913 | 5,342 | 11,255 |
| | TOTAL, All Fertilizers and Materials | 219,020 | 105,818 | 324,838 |
| | TOTAL NITROGEN | 55,235 | 26,106 | 81,341 |
| | TOTAL $P_2O_5$ | 40,622 | 20,066 | 60,688 |
| | TOTAL $K_2O$ | 7,369 | 3,174 | 10,543 |

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